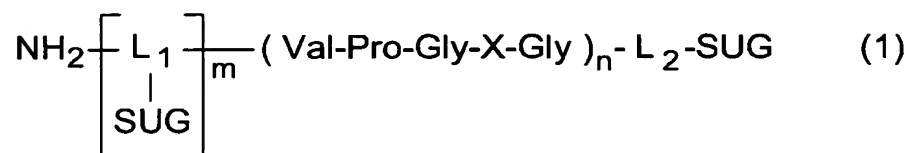## ABSTRACT

Temperature-responsive amphipathic glycopeptides and temperature-responsive micelles are provided by utilizing oligopeptide. A synthesized glycopeptide that does not occur naturally and is represented by the following chemical formula (1), and a temperature-responsive micelle composed of the glycopeptide are provided.

[Chemical Formula 1]

$$NH_2 \left[\begin{array}{c} L_1 \\ | \\ SUG \end{array} \right]_m (\text{Val-Pro-Gly-X-Gly})_n\text{-}L_2\text{-SUG} \qquad (1)$$

(where x is any amino acid residue, L_1 and L_2 are linkers, SUGs are sugar chains, m is 0 or 1 and n is an integer from 1 to 10, and L_1 and L_2 may be identical with or different from each other and SUGs may be identical with or different from each other.)